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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/749,672	12/31/2003	Amir Khan	17316 (DN2799)	9728	
7590 12/04/2006 .			EXAMINER		
GAF MATERIALS CORPORATION			CHEVALIER, ALICIA ANN		
1361 Alps Road Wayne, NJ 07470			ART UNIT	PAPER NUMBER	
,			1772		
			DATE MAILED: 12/04/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Application No.	Applicant(s)	
		10/749,672	KHAN ET AL.	
0	ffice Action Summary	Examiner	Art Unit	
		Alicia Chevalier	1772	
	MAILING DATE of this communication ap	pears on the cover sheet w	ith the correspondence address	
Period for Re <sub>l</sub>				
WHICHEV - Extensions of after SIX (6) - If NO period - Failure to rep Any reply rec	ENED STATUTORY PERIOD FOR REPL ER IS LONGER, FROM THE MAILING D of time may be available under the provisions of 37 CFR 1. MONTHS from the mailing date of this communication. for reply is specified above, the maximum statutory period oly within the set or extended period for reply will, by statute beived by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MON e, cause the application to become Al	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				
1)⊠ Resp	oonsive to communication(s) filed on <u>07 S</u>	September 2006.		
2a)⊠ This	This action is <b>FINAL</b> . 2b) This action is non-final.			
3)☐ Since	e this application is in condition for allowa	nce except for formal mat	ters, prosecution as to the merits is	
close	ed in accordance with the practice under t	Ex parte Quayle, 1935 C.D	). 11, 453 O.G. 213.	
Disposition of	Claims			
- 4)⊠ Clain	n(s) <u>1-20</u> is/are pending in the application	ı <b>.</b>		
-	If the above claim(s) <u>4, 9 and 12</u> is/are wi		n.	
5) Clain	n(s) is/are allowed.			
6)⊠ Clain	n(s) <u>1-3,5-8,10,11 and 13-20</u> is/are reject	ed.		
7) Clain	n(s) is/are objected to.			
8)∐ Clain	n(s) are subject to restriction and/o	or election requirement.		
Application Pa	apers		,	
9)∐ The s	pecification is objected to by the Examine	er.	•	
10)☐ The d	rawing(s) filed on is/are: a)  acc	epted or b) objected to	by the Examiner.	
Applic	cant may not request that any objection to the	drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
Repla	acement drawing sheet(s) including the correc	tion is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11) The o	ath or declaration is objected to by the Ex	xaminer. Note the attached	d Office Action or form PTO-152.	
Priority under	35 U.S.C. § 119			
12) Ackno	owledgment is made of a claim for foreign	priority under 35 U.S.C. §	§ 119(a)-(d) or (f).	
a)∐ All	b)☐ Some * c)☐ None of:			
1.	Certified copies of the priority document	s have been received.		
2.	Certified copies of the priority document	ts have been received in A	opplication No	
3.	• • •	*	received in this National Stage	
	application from the International Burea	•		
* See th	e attached detailed Office action for a list	of the certified copies not	received.	
Attachment/e\				
Attachment(s)	eferences Cited (PTO-892)	4) Interview S	Summary (PTO-413)	
2) D Notice of Dr	aftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date	
	Disclosure Statement(s) (PTO/SB/08)  /Mail Date	5) Notice of I	nformal Patent Application	

### RESPONSE TO AMENDMENT

1. Claims 1-20 are pending in the application, claims 4, 9 and 12 are withdrawn from consideration.

2. Amendments to the claims, filed on September 7, 2006, have been entered in the above-identified application.

#### REJECTIONS

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 102

4. Claims 1-3, 5-8, 10, 11, 13-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Clemens et al. (U.S. Publication No. 2002/0114940 A1).

Clemens discloses a top coating composition (page 1, paragraph [0020]) comprising a mixture of a polymeric binder (page 2, paragraph [0022] and page 4, paragraphs [0114]-[0118]), heat expandable graphite particles (page 2, paragraph [0029] and page 8, paragraph [0187]), a polymeric carrier (page 2, paragraph [0029]) and an effective amount of a pigment (page 2, paragraph [0024]) that is deemed to be capable of providing a coating that has an initial energy efficiency rating greater than or equal to 0.65 for a low-sloped roof, or an initial energy efficiency greater than or equal to 0.25 fir a steep-sloped roof. The mixture has a solids content from about 50-75% of which 1-10 wt. % is the expandable graphite particles (page 2,

paragraphs [0022]-[0029] and page 8, paragraph [0187]). The mixture may also be cured (page 8, paragraph [0169]).

The polymeric binder is a thermoplastic polymer selected from the group consisting of acrylic or methacrylic polymers or copolymers, epoxy resins and polyvinyl acetate and is present in the mixture in an amount from about 5 to about 60 wt. % (page 2, paragraph [0022] and page 4, paragraphs [0114]-[0118]). The polymeric carrier is water (page 2, paragraph [0029]). The pigment comprises titanium dioxide, calcium carbonate, colemanite, aluminum trihydrate (ATH), borate compounds or mixtures thereof and is present in the mixture in an amount from about 2 to about 20 wt. % (page 2, paragraph [0024]). The polymeric carrier and polymeric binder are deemed to form an aqueous polymeric-based emulsion. The mixture further comprises one or more optional components selected from the group consisting of dispersants, defoamers, fillers, solvents, microbiocides, thickening agents, additional fire retardants, pH modifiers, wetting agents, light stabilizers, and adhesion promoters (page 2, paragraph [0029]).

Clemens discloses further discloses a roofing product comprising a substrate and a top coat as discussed above. The substrate comprises single ply membranes, built-up roofing (BUR), modified bitumen, ethylene propylene diene monomer rubber (EPDM), standing-seam profile, shingles, clay, concentrate, fiber cement tile, slate, shakes, architectural profiled metal or individual roofing components (page 3, paragraph [0060] through page 4, paragraph [0094]). The substrate surface is deemed to have a slope of 2:12 inches or less, since figure 1 show the substrate to have no slope, i.e. 0.

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## ANSWERS TO APPLICANT'S ARGUMENTS

5. Applicant's arguments in the response filed September 7, 2006 regarding the 35 U.S.C. 102(b) over Clemens et al. of record have been carefully considered but are deemed unpersuasive.

Applicant argues that Clemens does not recite each and every element of claim arranged as in the claim. Specifically Applicant points out that Clemens does not recite a pigment capable of providing a coating that has an initial energy efficiency rating greater than or equal to 0.65 for a low-sloped roof, or an initial energy efficiency greater than or equal to 0.25 for steep-sloped roof.

Regarding the phrase "capable of," it has been held that the recitation that an element is "capable of" performing only requires the ability to so perform. Also, while Clemens does not explicitly teach "pigment capable of providing a coating that has an initial energy efficiency rating greater than or equal to 0.65 for a low-sloped roof, or an initial energy efficiency greater than or equal to 0.25 for steep-sloped roof," it is reasonable to presume that Clemens' top coating would meet the above limitation because Clemens' top is substantially identical in composition and structure to Applicant's disclosed top coating. MPEP § 2183. Furthermore, Applicant requires a white pigment (*specification paragraph [0026]*) in the range of about less 15% and Clemens also requires a white pigment (*Clemens [0019]*) and up to 50% coloring pigment (*Clemens [0024]*). Since Clemens requires a white pigment in an overlapping range Clemens' pigment is deemed capable of providing a coating that has an initial energy efficiency rating greater than or equal to 0.65 for a low-sloped roof, or an initial energy efficiency greater

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than or equal to 0.25 for steep-sloped roof, unless Applicant provides evidence that Clemens' pigment is incapable of meeting the functional language in claim 1.

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#### Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

11/26/06

ALICIA CHEVALIER